MATERIAL SAFETY DATA SHEET According to (EG) 1907/2006 (REACH) SILADENT Dr. Böhme & Schöps GmbH



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Date of printing: 01.09.2011 reviewed on: 01.01.2010

Zirkon BioStar Z with shoulder and without shoulder

Identification of the Substance / Preparation and Company:

Identification of the substance or preperation:

Commercial product name: Zirkon BioStar Z with shoulder and without shoulder

Company / Manufacturer: SILADENT Dr. Böhme & Schöps GmbH

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Hazards Identification: 2.

> Classification: No classification

Composition / Information on Ingredients:

Hazadous components: Zirconium oxide - Hafnium oxide - Yttrium oxide

Zirconium oxide (ZrO2) 70 - 100 % CAS-Nr. 1314-23-4 EG-Nr. 215-227-2 Hafnium oxide (HfO2) 1 - 5 % CAS-Nr. 12055-23-1 EG-Nr. 235-013-2 3 - 15 % CAS-Nr. 1314-36-9 Yttrium oxide EG-Nr. 215-233-5

First aid measures:

Wash off with soap and water. After contact with the skin: After swallowing: Obtain medical attention.

5. Fire Fighting measures:

> Suitable extinguishing media: Extinguishing methods depends upon fire in vicinity poses.

> > The product itself does not burn.

Extinguishing media which must not be

used for safety reasons:

None known

Special hazards:

Special protective equipment for fire

fighting:

None known Self-contained breathing apparatus.

Accidental release measures: 6.

> Personal precautions: safety glasses

Environmental precautions: Observe local bye-laws

Methods for cleaning up: Use mechanical handling equipment. Fill into labeled, sealable containers.

Handling and Storage:

Avoid dust formation. Precautions for safe handling:

Ensure adequate ventilation and, if necessary, exhaust ventilation

when handling or transferring the product.

Ensure that the occupational exposure limit value/s (OEL) and/or

other limit values are complied with.

Precautions against fire and explosion:

No special precautions required.

Conditions of storage rooms and

vessels:

Comply with the directives governing water law

Further information for storage: Store in tightly closed containers in a dry place.

Exposure cntrols / Personal protection:

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Respiratory protection: Respiratory protective device with particle filter EN 143

Hand protection: Glove material: Butyl-rubber, Natural rubber, Nitrile rubber

The data about break through time/strength of material is not valid

for undissolved solids/dust.

Eye protection: Safety glasses
Body protection: Protective suit

General protective measures: Handle in accordance with good industrial hygiene and safety

practice. Keep working clothes separately.

9. Physical and chemical properites:

Form: disc, block, cylinder, customer-specific form

Colour: white or pigmented

Odour: Odourless

pH: no data available Melting point/range: no data available

Burning number: 1

Method: VDI 2263 Flammability (solid, gas) not highly flammable

Method: Method: Directive 67/548/EEC Annex V, A.10.

Flammability (contact with water) not highly flammable

Method: Directive 67/548/EEC Annex V, A.12.

Dust explosibility no data available Lower explosion limit: no data available Auto-flammability: not auto-flammable

Method: Directive 67/548/EEC Annex V, A.16.

Desity: 2.9 - 3.5 g/cm3 Water solubility: practically insoluble

10. Stability and Reactivity:

Conditions to avoid:

Materials to avoid:

Thermal decomposition:

Hazardous decomposition products:

None known.

None known.

not applicable

not applicable

11. Toxicological Information:

Acute toxicity:

Skin irritation rabbit

Yttrium oxide No skin irritation

Method: No information available.

Acute oral toxicity LD50 rat > 5,000 mg/kg

Yttrium oxide Method: No information available.

Eye irritation Mild eye irritation

Yttrium oxide Method: No information available.

12. Ecological Infomation:

No information on ecology is available.

13. Disposal Considerations:

Product: The Federal, regional and local rules and regulations governing

disposal must be complied with.

Packaging Packaging that is not contaminated and has been cleaned can be

recycled.

14. Transport Infomation:

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Land transport ADR/RID
Not dangerous goods
Air transport ICAO-TI/IATA-DGR
Not dangerous goods
Sea transport IMDG
Not dangerous goods

15. Regulatory Information:

Labelling:

Labelling according to EC Directives Directive 1999/45/EC

16. Further Information:

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.